Malawi Watershed Services Improvement Project (P167860)

AFRICA EAST | Malawi | Water Global Practice |

IBRD/IDA | Investment Project Financing | FY 2020 | Seq No: 3 | ARCHIVED on 28-Sep-2021 | ISR47875 |

Implementing Agencies: Ministry of Forestry and Natural Resources, Republic of Malawi

Key Dates

Key Project Dates

Bank Approval Date: 19-Jun-2020 Effectiveness Date: 21-Dec-2020
Planned Mid Term Review Date: 19-Jun-2023 Actual Mid-Term Review Date:
Original Closing Date: 31-Jul-2026 Revised Closing Date: 31-Jul-2026

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

Increase adoption of sustainable landscape management practices and improve watershed services in targeted watersheds

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

Components Table

Name

Public Disclosure Authorized

Scaling up Landscape Restoration:(Cost \$53.00 M)
Improving Watershed Services:(Cost \$82.00 M)
Technical and Project Management Support:(Cost \$25.00 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	□Satisfactory	□Satisfactory
Overall Implementation Progress (IP)	□Satisfactory	□ Moderately Satisfactory
Overall Risk Rating	□Moderate	□Moderate

Implementation Status and Key Decisions

The project has generally made progress over the past six months as implementation continues to improve; however, some key activities are behind schedule and the impact of Covid-19 related constraints have been a significant factor. Progress across components is as follows:

Component 1: landscape restoration: Most preparatory activities under this component are going as planned. Under Catchment and subcatchment planning, the project conducted briefing sessions, reviewed and updated Catchment Management Plans for two district councils (Blantyre and Zomba). Five other Catchment Management Plans were drafted and submitted to the Ministry of Justice and Constitutional Affairs. The project has also started to develop a manual for the Performance-Based Grants for establishment of productive forestry. Similarly, Farmer Field Schools trainings were conducted in five districts. Land Registry offices were Identified in three districts (Zomba, Ntcheu and Blantyre) and assessed maps printed.

Component 2: Improving Watershed services and Institutions: The National Water Resources Agency (NWRA) is still working to meet the prerequisites and indicators as agreed for the Performance-Based Grants (PBG) to Selected Watershed Management Institutions, however

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progress is behind schedule. The project finalized the development of ToRs for a consultant to review existing designs, construction supervision, and Water Users Associates (WUA) establishment of irrigation schemes established in a previous World Bank project. Component 3: Technical and Project Management Support: Reasonable progress has been recorded under this component in the last six months. The independent verifier is on board, staffing of the PMU with core members is completed, and rehabilitation of two office blocks and construction of new office block is underway. The development of an integrated M&E and Management Information System (MIS) to serve the two projects (MWSIP and MRDRMP) is initiated. A financial management software system (TOMPRO) is now in use. Procurement of 12 Motor Vehicles has been completed. The project has also prepared and submitted its Annual Workplan and Budget for the 2021/2022 fiscal year. Key actions to be addressed moving forward include, completing manuals for performance-based grants for forestry, agriculture and livelihood activities and designating an Executive Director for the National Water Resources Authority.

Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	Substantial	□Moderate	Moderate
Macroeconomic	Substantial	Substantial	Moderate
Sector Strategies and Policies	□Moderate	□Low	Low
Technical Design of Project or Program	Substantial	□Moderate	Moderate
Institutional Capacity for Implementation and Sustainability	Substantial	□Moderate	□Moderate
Fiduciary	Substantial	Substantial	Substantial
Environment and Social	Substantial	Substantial	Substantial
Stakeholders	Substantial	□Moderate	Moderate
Other		□Moderate	Moderate
Overall	Substantial	□Moderate	Moderate

Results

PDO Indicators by Objectives / Outcomes

Increase adoption of sustainable landscape management practices

► Proportion of target fa	irmers adopting sustainable land	dscape management practices	(Percentage, Custom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	70.00
Date	30-Jun-2020	11-Sep-2020	13-Aug-2021	31-Jul-2026
Comments:		ures the adoption rate for susta inable landscape management		

9/28/2021 Page 2 of 9 technologies or practices (agronomic, vegetative, structural, and management measures) applied to improve land quality and prevent degradation and/or restore already degraded landscape. The suite of technologies and practices appropriate to the Malawian context are described in the National Catchment Management Guidelines and Manual. These include physical soil and water conservation techniques (e.g. marker and contour ridges, ridge alignment, box ridges, water harvesting, infiltration ditches, gully plugs, check dams, etc); vegetative river/stream-bank restoration; agricultural technologies (i.e., agroforestry, farmer-managed natural regeneration), community forestry and woodlots and plantation forestry. Adoption refers to a change of practice or change in the use of a technology or practice promoted or introduced by the project. For purposes of this project, a farmer will be counted as an adoptor if he/she practices at least two technologies or practices on agricultural land for at least three consecutive farming seasons or any other technology on other land-use types.

► Land area under sustainable landscape management practices (Hectare(Ha), Corporate)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	95,000.00
Date	18-Dec-2019	11-Sep-2020	13-Aug-2021	31-Jul-2026

Comments:

The indicator measures, in hectares, the land area for which new and/or improved sustainable landscape management practices have been introduced. Land is the terrestrial biologically productive system comprising soil, vegetation, and the associated ecological and hydrological processes; Adoption refers to change of practice or change in the use of a technology promoted or introduced by the project; Sustainable landscape management (SLM) practices refers to a combination of at least two technologies and approaches to increase land quality and restore degraded lands for example, agronomic, vegetative, structural, and management measures that, applied as a combination, increase the connectivity between protected areas, forest land, rangeland, and agriculture land.

▶ Land area showing an increase in Normalized Difference Vegetation Index (NDVI) and the Land Surface Water Index (LSWI), correcting for short-term climate effects (Hectare(Ha), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	50,000.00
Date	30-Jun-2020	11-Sep-2020	13-Aug-2021	31-Jul-2026

Comments:

This indicator captures the results of the adoption of SLM practices in the target watersheds by measuring the increase in vegetation cover corrected for short-term weather effects (e.g. prolonged dry period) through the NDVI and in soil water content through LSWI. The NDVI uses the visible and near-infrared bands of the electromagnetic spectrum to analyze remote sensing measurements to determine the extent to which a target contains live green vegetation. LSWI uses the shortwave infrared and near-infrared bands of the electromagnetic spectrum to analyze remote sensing measurements (based on satellite imagery data) to determine the amount of water in vegetation and soil. The increase in NDVI and LSWI for a given micro watershed to count towards the target for this indicator should be at least 10%, correcting for short-term weather effects.

Improve watershed management services

▶ Number of people gaining access to water for productive use (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	42,000.00
Date	30-Jun-2020	11-Sep-2020	13-Aug-2021	31-Jul-2026
Comments:		mproved access to water for p tructure. Water for productive		

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		fisheries, and water for small-scale processing. Access means water is either delivered at the point of production or is within 250m from the point of production for the case of water for livestock.					
▶ Proportion (%) of target farmers benefiting from an increase in production sold to the markets and/or an increase in income from marketed products (Percentage, Custom)							
	Baseline	Actual (Previous)	Actual (Current)	End Target			
Value	0.00	0.00	0.00	50.00			
Date	19-Dec-2019	11-Sep-2020	13-Aug-2021	31-Jul-2026			
Comments:	aquaculture, forest-b	ased) sold to the markets and/		This indicator tracks the share of target farmers benefiting from an increase in products (agricultural, aquaculture, forest-based) sold to the markets and/or an increase in income from marketed products, as a result of project interventions			

Intermediate Results Indicators by Components

► Agricultural land are	a with soil and water conservation	on measures (Hectare(Ha), Cus	tom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	30,000.00
Date	30-Jun-2020	19-Feb-2021	13-Aug-2021	31-Jul-2026
Comments:	water conservation	s the area of cropland where so measures include marker and co on ditches, gully plugs, check da	contour ridges, ridge alignm	
►I and area with impr	oved agricultural technologies ap	onlied (Hectare(Ha), Custom)		
Land area with impr	oved agricultural technologies ap	oplied (Hectare(Ha), Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	25,000.00
Date	30-Jun-2020	19-Feb-2021	13-Aug-2021	31-Jul-2026
Comments:		s the adoption of improved agric lture, agro-forestry, farmer-man		
	t referented or under improved r	nanagement (Hectare(Ha), Cus	etom)	
► Forget area rectored	a, reforested of under improved t	management (nectare(na), cus	iom)	
► Forest area restored		Actual (Previous)	Actual (Current)	End Target
►Forest area restored	Baseline		0.00	35,000.00
	Baseline 0.00	0.00	0.00	
► Forest area restored Value Date		0.00 19-Feb-2021	13-Aug-2021	31-Jul-2026

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	Baseline	Actual (Previous)	Actual (Current)	End Target		
Value	0.00	0.00	0.00	5,000.00		
Date	30-Jun-2020	19-Feb-2021	13-Aug-2021	31-Jul-2026		
Comments:		This indicator tracks the area of vegetative riparian buffer established along major rivers and streams in the targeted watersheds				
➤ Proportion of househol	ds within targeted catchments	engaged in SLM practices (Pe	ercentage, Custom)			
	Baseline	Actual (Previous)	Actual (Current)	End Target		
Value	0.00	0.00	0.00	80.00		
Date	18-Dec-2019	19-Feb-2021	13-Aug-2021	31-Jul-2026		
Comments:	practices. A househ	the proportion of households wold will be counted towards this or promoted by the project				
►Yields of selected agric	cultural commodities supporte	d by the project (Percentage, C	custom)			
	Baseline	Actual (Previous)	Actual (Current)	End Target		
/alue	0.00	0.00	0.00	70.00		
Date	19-Dec-2019	19-Feb-2021	13-Aug-2021	31-Jul-2026		
Date Comments:		19-Feb-2021 the increase in agricultural pro				
Comments: Number of female farm	This indicator tracks grant program.		oductivity among farmers su	ipported by the matching		
Comments: Number of female farm	This indicator tracks grant program.	the increase in agricultural pro	oductivity among farmers su	ipported by the matching		
➤ Number of female farm Number, Custom)	This indicator tracks grant program. ners benefiting from an increas	s the increase in agricultural pro	oductivity among farmers su	upported by the matching		
Number of female farm Number, Custom)	This indicator tracks grant program. ners benefiting from an increas	s the increase in agricultural prose in production sold to the mar Actual (Previous)	oductivity among farmers su kets or an increase in incor	upported by the matching me from marketed products End Target		
Number of female farm Number, Custom) Value	This indicator tracks grant program. ners benefiting from an increas Baseline 0.00 19-Dec-2019 This indicator tracks	s the increase in agricultural prose in production sold to the mar Actual (Previous) 0.00 19-Feb-2021 s the number of female farmers based) sold to the markets or a	Actual (Current) 0.00 13-Aug-2021 benefiting from an increase	e in products (agricultural,		
Number of female farm (Number, Custom) Value Date Comments:	This indicator tracks grant program. The program an increase series benefiting from an increase series ser	s the increase in agricultural prose in production sold to the mar Actual (Previous) 0.00 19-Feb-2021 s the number of female farmers based) sold to the markets or a	Actual (Current) 0.00 13-Aug-2021 benefiting from an increase in income from a	en products and Target 5,000.00 31-Jul-2026 in products (agricultural, marketed products, as a		
Number of female farm (Number, Custom) Value Date Comments:	This indicator tracks grant program. The program an increase series benefiting from an increase series ser	s the increase in agricultural prose in production sold to the mar Actual (Previous) 0.00 19-Feb-2021 s the number of female farmers based) sold to the markets or a rventions	Actual (Current) 0.00 13-Aug-2021 benefiting from an increase in income from a	en products End Target 5,000.00 31-Jul-2026 en in products (agricultural, marketed products, as a		
Number of female farm (Number, Custom) Value Date Comments:	This indicator tracks grant program. The program and increase the prog	s the increase in agricultural prose in production sold to the mar Actual (Previous) 0.00 19-Feb-2021 s the number of female farmers based) sold to the markets or a rventions with the services provided under	Actual (Current) 0.00 13-Aug-2021 benefiting from an increase in income from increase in income from increase in income from increase in increase in income from increase in increase in income from increase in increase i	end Target 5,000.00 31-Jul-2026 e in products (agricultural, marketed products, as a		
Number of female farm Number, Custom) Value Date Comments: Proportion of project be	This indicator tracks grant program. The program an increase and the program	s the increase in agricultural prose in production sold to the mar Actual (Previous) 0.00 19-Feb-2021 s the number of female farmers based) sold to the markets or a rventions with the services provided under	Actual (Current) benefiting from an increase in incore in incore in increase	end Target 5,000.00 31-Jul-2026 en in products (agricultural, marketed products, as a		

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	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	6,500.00
Date	30-Jun-2020	19-Feb-2021	13-Aug-2021	31-Jul-2025
Comments:	This indicator tracks the n activities supported by the	umber of female farmers gair project.	ning tenure security throug	h the land registration

	activities supported		gaining tenure security thic	ough the land registration
mproving Watershed S	Services			
►Average performanc	e score for project-supported wa	tershed management institution	ns (Percentage, Custom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	60.00
Date	30-Jun-2020	19-Feb-2021	13-Aug-2021	31-Jul-2026
Comments:	This indicator tracks on their performance	the annual average performane scorecards	ce score for project-suppor	ted watershed institutions
►Number of farmers re	eceiving payments under the pilo	ot Payment for Watershed Serv	ices (PWS) scheme (Numb	er, Custom)
	Baseline	Actual (Previous)	Actual (Current)	End Target
√alue	0.00	0.00	0.00	30,000.00
Date	19-Dec-2019	19-Feb-2021	13-Aug-2021	31-Jul-2026
Comments:	This indicator tracks	the number of farmers receiving	ng payments under the pilot	: PWS scheme
		hire river tributaries (Percentag	e, Custom)	
► Percentage reduction	n in sediment yield in selected S	, ,		
➤ Percentage reduction	n in sediment yield in selected S Baseline	Actual (Previous)	Actual (Current)	End Target
	·		Actual (Current) 0.00	End Target 20.00
Value	Baseline	Actual (Previous)		
Value Date	Baseline 0.00 18-Dec-2019	Actual (Previous) 0.00	0.00 13-Aug-2021	20.00 31-Jul-2026
Value Date	Baseline 0.00 18-Dec-2019 This indicator tracks	Actual (Previous) 0.00 19-Feb-2021	0.00 13-Aug-2021	20.00 31-Jul-2026
Value Date Comments:	Baseline 0.00 18-Dec-2019 This indicator tracks	Actual (Previous) 0.00 19-Feb-2021 the reduction in sediment yield	0.00 13-Aug-2021	20.00 31-Jul-2026
Value Date Comments:	Baseline 0.00 18-Dec-2019 This indicator tracks scheme	Actual (Previous) 0.00 19-Feb-2021 the reduction in sediment yield	0.00 13-Aug-2021	20.00 31-Jul-2026
Value Date Comments: Number of multiple-u	Baseline 0.00 18-Dec-2019 This indicator tracks scheme use water sources developed (No	Actual (Previous) 0.00 19-Feb-2021 the reduction in sediment yield	0.00 13-Aug-2021 I in the Shire River tributarie	20.00 31-Jul-2026 es targeted under the PWS
Value Date Comments:	Baseline 0.00 18-Dec-2019 This indicator tracks scheme use water sources developed (Nu	Actual (Previous) 0.00 19-Feb-2021 the reduction in sediment yield umber, Custom) Actual (Previous)	0.00 13-Aug-2021 I in the Shire River tributarie Actual (Current)	20.00 31-Jul-2026 es targeted under the PWS

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► Area provided with new/improved irrigation or drainage services (Hectare(Ha), Corporate)						
	Baseline	Actual (Previous)	Actual (Current)	End Target		
Value	0.00	0.00	0.00	2,400.00		
Date	19-Dec-2019	19-Feb-2021	13-Aug-2021	31-Jul-2026		
Comments:	project, including in	This indicator measures the total area of land provided with irrigation and drainage services under the project, including in (i) the area provided with new irrigation and drainage services, and (ii) the area provided with improved irrigation and drainage services, expressed in hectare (ha).				
► Farmers receiving agr	ro-weather information services	(Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target		
Value	0.00	0.00	0.00	8,000.00		
Date	30-Jun-2020	19-Feb-2021	13-Aug-2021	31-Jul-2026		
Comments:	This indicator tracks	the number of farmers receivir	ng agro-weather information	n services.		

Technical and Project Management Support

▶ A biophysical and ecological monitoring system developed and used (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target		
Value	There is no system in place for monitoring biophysical and ecological changes in the targeted watersheds	Draft terms of reference have been prepared for consultancy services to develop and operationalize the system.	Draft terms of reference have been prepared for consultancy services to develop and operationalize the system.	Biophysical and ecological monitoring system implemented in at least 30 sub- catchments in the project area		
Date	30-Jun-2020	19-Feb-2021	13-Aug-2021	31-Jul-2026		
This indicator tracks progress on key milestones for the establishment and use of a biophysical and						

Comments:

This indicator tracks progress on key milestones for the establishment and use of a biophysical and ecological monitoring system. A biophysical and ecological monitoring system is a GIS-based information system that is able to systematically capture, analyze, and visualize spatially-referenced data on biophysical and ecological changes occurring in a watershed as a result of project interventions. The system must be able to capture, analyze and visualize spatially-referenced data on the several biophysical, ecological and ecosystem parameters, including but not limited to: tree/vegetation cover, soil depth, soil fertility, soil erosion, soil moisture, sediment yields, groundwater levels, surface water quality, biodiversity, etc. The system must also be able to track key project indicators such as SLM adoption rates, land area under SLM, as well as data on improvements in watershed services supported under the project. The system will be considered implemented if at least the baseline biophysical and ecological data from the 10 sub-catchments has been entered in the system.

Performance-Based Conditions

Data on Financial Performance

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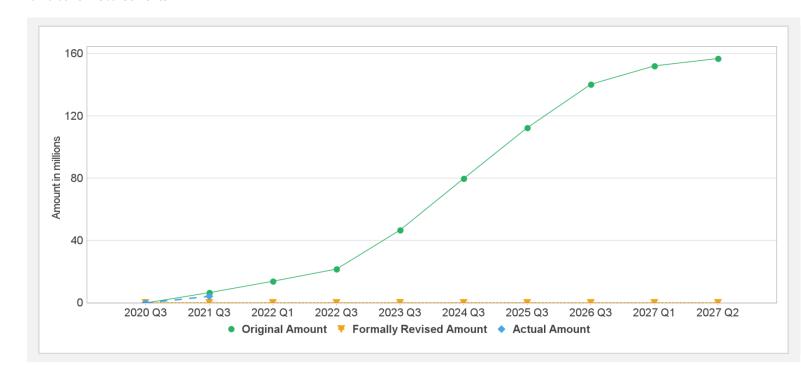
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P167860	IDA-65790	Effective	USD	78.50	78.50	0.00	2.42	79.07	3%
P167860	IDA-D5860	Effective	USD	78.50	78.50	0.00	2.42	79.07	3%

Key Dates (by Ioan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P167860	IDA-65790	Effective	19-Jun-2020	05-Nov-2020	21-Dec-2020	31-Jul-2026	31-Jul-2026
P167860	IDA-D5860	Effective	19-Jun-2020	05-Nov-2020	21-Dec-2020	31-Jul-2026	31-Jul-2026

Cumulative Disbursements



PBC Disbursement

PBC ID	PBC Type	Description	Coc	Achievement Status	Disbursed amount in Coc	Disbursement % for PBC

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Restructuring H	listory
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There has been no restructuring to date.

Related Project(s)

There are no related projects.

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